## FIGURE 1

| loci | allelic designation | size (bp) | loci | allelic designation | size (bp) | loci | allelic designation n | size (bp) | loci | allelic designation n | size (bp) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TH01 | 4 | 150 | D8 | 7 | 157 | D18 | 8 | 266 | FGA (LMW) | 16.1 | 173 |
| | 5 | 154 | | 8 | 161 | | 9 | 270 | | 17 | 176 |
| | 6 | 158 | | 9 | 165 | | 10 | 274 | | 18 | 180 |
| | 7 | 162 | | 10 | 169 | | 11 | 278 | | 19 | 184 |
| | 8 | 166 | | 11 | 173 | | 12 | 282 | | 20 | 188 |
| | 9 | 170 | | 12 | 177 | | 13 | 286 | | 21 | 192 |
| | 9.3 | 173 | | 13 | 181 | | 14 | 290 | | 22 | 196 |
| | 10 | 174 | | 14 | 185 | | 15 | 294 | | 23 | 200 |
| | 11 | 178 | | 15 | 189 | | 16 | 298 | | 24 | 204 |
| | 13.3 | 189 | | 16 | 193 | | 17 | 302 | | 25 | 208 |
| D21 | 53 | 203 | | 17 | 197 | | 18 | 306 | | 26 | 212 |
| | 54 | 205 | | 18 | 201 | | 19 | 310 | | 27 | 216 |
| | 56 | 209 | | 19 | 205 | | 20 | 314 | | 28 | 220 |
| | 57 | 211 | VWA | 10 | 122 | | 21 | 318 | | 29 | 224 |
| | 59 | 215 | | 11 | 126 | | 22 | 322 | | 30 | 228 |
| | 61 | 219 | | 12 | 130 | | 23 | 326 | | 30.2 | 230 |
| | 63 | 223 | | 13 | 134 | | 24 | 330 | | 31.2 | 234 |
| | 65 | 227 | | 14 | 138 | | 25 | 334 | | 32.2 | 238 |
| | 67 | 231 | | 15 | 142 | | 26 | 338 | | 33.2 | 242 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 68 | 233 | | 16 | 146 | | 27 | 342 | | | 34.2 | 246 |
| 70 | 237 | | 17 | 150 | X | 105 | | | | 42.2 | 278 |
| 72 | 241 | | 18 | 154 | Y | 111 | | | | 42.3 | 282 |
| 74 | 245 | | 19 | 158 | | | | | | 44.2 | 286 |
| 75 | 247 | | 20 | 162 | | | | | | 45.2 | 290 |
| 77 | 251 | | 21 | 166 | | | | | | 46.2 | 294 |
| 79 | 255 | | | | | | | | | 47.2 | 298 |
| 81 | 259 | | | | | | | | | 48.2 | 302 |
| | | | | | | | | | | 50.2 | 310 |

AMELO

AMELOGENIN

X    Y

FIG.    2a

HUMVWFA31/A

10  11  12  13  14  15  16  17  18  19  20  21

FIG.    2b

HUMTHOI

4  5  6  7  8  9  93  10  11  133

FIG.    2c

D8SII79

7  8  9  10  11  12  13  14  15  16  17  18  19

FIG.    2d

FIG. 2e

FIG. 2f

D21S11

53 54 56 57 59 61 63 65 67 68 70 72 74 75 77 79 81

FIG. 2g

D18S51

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
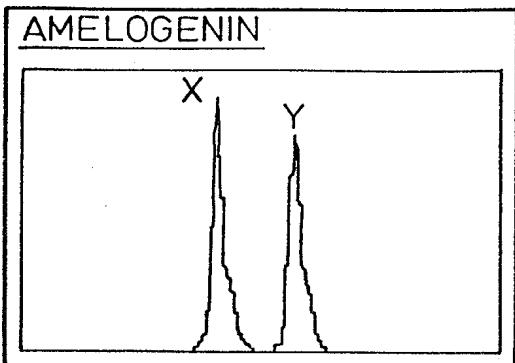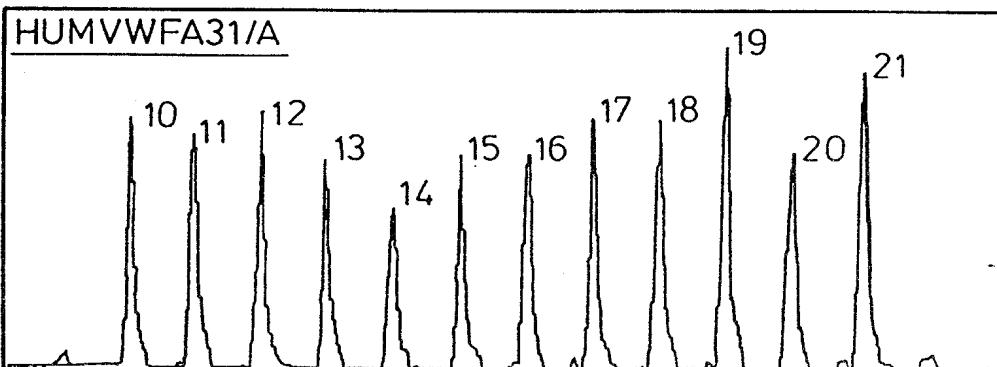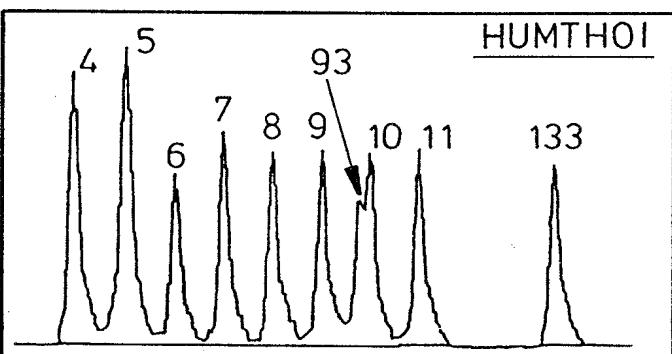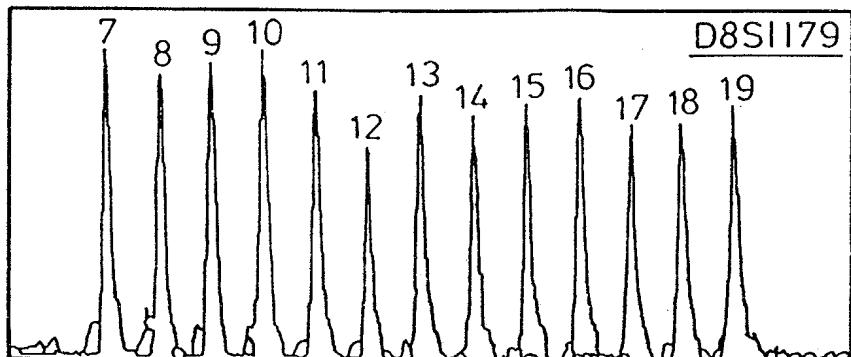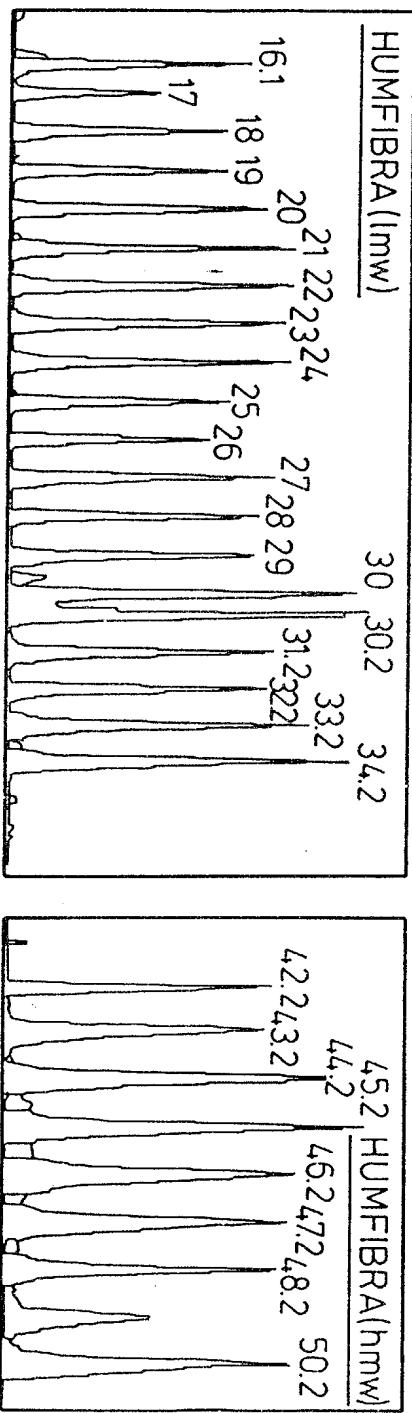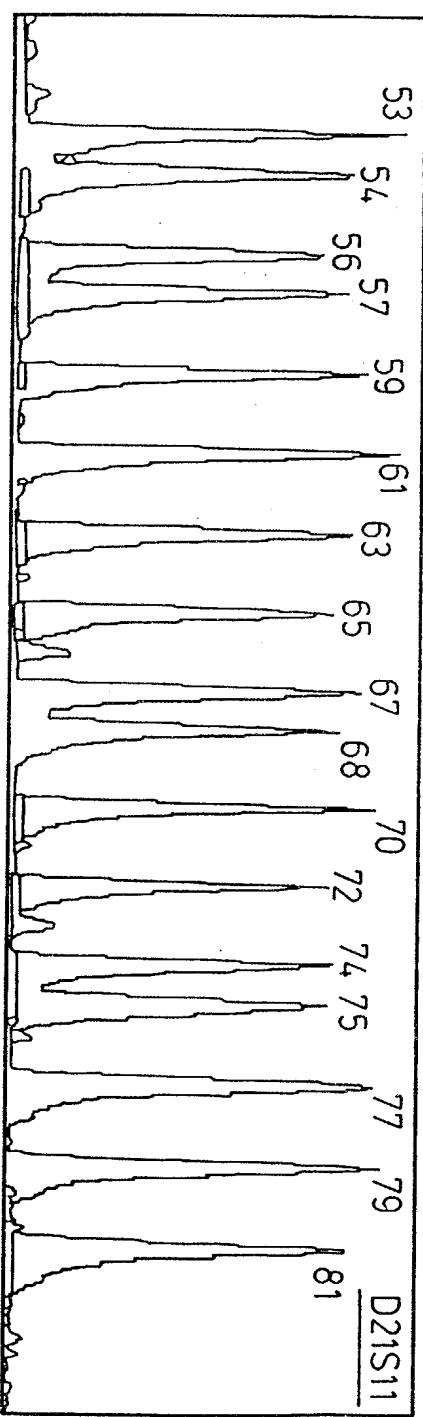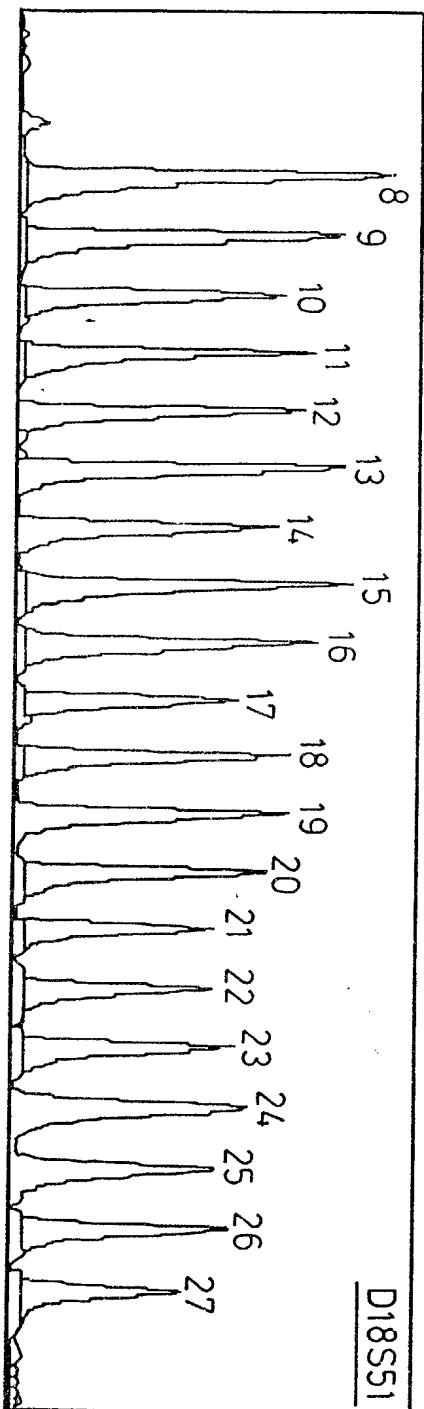
## HUMVWAF31/A sequences FIG.3A

10    TCTA TCTG TCTA $(TCTG)_4$ $(TCTA)_3$

12    TCTA $(TCTG)_4$ $(TCTA)_7$

13    $(TCTA)_2$ $(TCTG)_4$ $(TCTA)_3$ TCCA $(TCTA)_3$ $(TCCA)_3$ T

(Note also that the 13 allele has an atypical 3' flanking sequence (highlighted). The usual sequence is TCCA TCTA T.)

## HUMTH01 sequences FIG. 3B

13.3   $(TCAT)_4$ CAT $(TCAT)_7$ $TCGT^{12th}$ TCAT

## D8S1179 sequences FIG. 3C

7    $(TCTA)_8$;

19   $(TCTA)_2$ TCTG $(TCTA)_{16}$

## HUMFIBRA(FGA) Repeat Sequences FIG. 3D

16.1   $(TTTC)_3$ TTTT TTCT $(CTTT)_5$ T $(CTTT)_3$ CTCC $(TTCC)_2$

27    $(TTTC)_3$ TTTT TTCT $(CTTT)_{13}$ CCTT $(CTTT)_5$ CTCC $(TTCC)_2$

30    $(TTTC)_3$ TTTT TTCT $(CTTT)_{16}$ CCTT $(CTTT)_5$ CTCC $(TTCC)_2$

31.2  $(TTTC)_4$ TTTT TT $(CTTT)_{15}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$

32.2  $(TTTC)_4$ TTTT TT $(CTTT)_{16}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$

33.2  $(TTTC)_4$ TTTT TT $(CTTT)_{17}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$

42.2  $(TTTC)_4$ TTTT TT $(CTTT)_8$ $(CTGT)_4$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$

43.2  $(TTTC)_4$ TTTT TT $(CTTT)_8$ $(CTGT)_5$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$

44.2  $(TTTC)_4$ TTTT TT $(CTTT)_{11}$ $(CTGT)_3$ $(CTTT)_{14}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$

45.2  $(TTTC)_4$ TTTT TT $(CTTT)_{10}$ $(CTGT)_5$ $(CTTT)_{13}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$

47.2  $(TTTC)_4$ TTTT TT $(CTTT)_{12}$ $(CTGT)_5$ $(CTTT)_{14}$ $(CTTC)_3$ $(CTTT)_3$ CTCC $(TTCC)_4$

48.2  $(TTTC)_4$ TTTT TT $(CTTT)_{14}$ $(CTGT)_3$ $(CTTT)_{14}$ $(CTTC)_4$ $(CTTT)_3$ CTCC $(TTCC)_4$

## D21S11 alleles                                                           FIG. 3E

53      $(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA$(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_6$ TCGTCT

54      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_9$ TCGTCT

56      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA $(TCTA)_{10}$ TCGTCT

57      $(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_8$ TCGTCT

59      $(TCTA)_5$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_9$ TCGTCT

61      $(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{10}$ TCGTCT

63      $(TCTA)_4$ $(TCTG)_6$ $(TCTA)_3$ TA    $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{11}$ TCGTCT

65      $(TCTA)_6$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{11}$ TCGTCT

67      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{12}$ TCGTCT

68      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{11}$ TA TCTA TCGTCT

70      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{12}$ TA TCTA TCGTCT

72      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{13}$ TA TCTA TCGTCT

74      $(TCTA)_5$ $(TCTG)_6$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{14}$ TATCTA TCGTCT

75      $(TCTA)_{10}$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{12}$ TCGTCT

77      $(TCTA)_{11}$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{12}$ TCGTCT

79      $(TCTA)_{11}$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{13}$ TCGTCT

81      $(TCTA)_{13}$ $(TCTG)_5$ $(TCTA)_3$ TA $(TCTA)_3$ TCA $(TCTA)_2$ TCCATA
$(TCTA)_{12}$ TCGTCT


## D18S51 sequences                                                         FIG. 3F

8       $(AGAA)_8$